## **DECLARATION AND POWER.OF** Attornoy Docket Number 5489P081 ATTORNEY FOR PATENT APPLICATION First Named Inventor Wayne V. Sorin (37 CFR 1.63) COMPLETE IF KNOWN Application Number Declaration Oeclaration Filing Date Submitted Submitted after Initial OR with initial Filing (surcharge Art Unit Filing (37 CFR 1.16(e)) Examiner Name required) As a below named inventor, I hereby declare that: My residence, mailing address, and citizenship are as stated below, next to my name. I believe I am the original and first inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Multiple-wavelength Pulsed Light Source for a Wavelength Division Multiplexed Passive Optical Network (Title of the Invention) the specification of which is attached hereto. OR was filed on (if applicable): as United States Application Number PCT International Application Number and was amended on (if applicable) I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above. I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

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I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, or inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign	Application(s):

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
				Yes No
			⊐	☐Yes ☐No
				Yes No
				☐Yes ☐ No
				☐Yes ☐No

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

Direct all co	rrespondence to:	Customer Num	ber	08791	or 🔀	Corresponde	nce address below
Name	Thomas S. Ferrill Blakely, Sokoloff,	Taylor & Zafman LL	P				
Address	12400 Wilshire B	oulcvard, 7th Floor					
City	Los Angeles		State	California		Zip Code	90025
Country	USA	Telep	anone	(408) 720-8300		Fax	(408) 720-8383

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

OR FIRST INVENTOR: A petition	on has been filed for a	this undersigne	d inventor
W	Vayne V. Sorin		
(First, Middle [ifuny], Fam	nily Name (or Surname), a	nd Suffix [if any])	
e Wayne V. Sour	Date	May 10	5 2004
1	<del></del>	Ø	
untain View, California USA	Citizenship	Canada	
(City, State, Country)	<u> </u>	(Cot	untry)
3579 Cambridge Lane		•	• •
Mountain View, California 94040 USA			
	e (First, Middle [ifany], Fam ountain View, California USA (City, State, Country) 3579 Cambridge Lane	untain View, California USA Citizenship (City . State, Country) 3579 Cambridge Lane	re (First, Middle [if my], Family Name (or Surname), and Suffix [if any])  The Date May [Continuation View, California USA (City, State, Country) (Continuation View, Cambridge Lane)

Docket No. 5489P081

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/Giart	Ben J. Vakoc
	t. Middle [if any], Family Name (or Surname), and Suffix [if any])
Inventor's Signature	Date
Residence Cambridge, Massachusetts	S USA Citizenship USA
(City, State	
Mailing Address 3 Sargent Street	
Cambridge, Massach	
NAME OF THIRD INVENTOR:	☐ A petition has been filed for this undersigned inventor
Full Name:	
	t, Middle [if any], Family Name (or Surname), and Suffix [if any])
Inventor's Signature	
Residence	Citizenship (Country) (Country)
	c, Country) . (Country
Mailing Address	
Full Name:	
(Hipel	Middle lifamy Family Name (or Syrname) and Suffix lifamy)
	t, Middle [if any], Family Name (or Surname), and Suffix [if any])
Inventor's Signature	Date
Inventor's Signature	DateCitizenship
Inventor's Signature  Residence (City, State	DateCitizenship
Residence (City , State	Citizenship (Country) (Country)
Residence (City , State Mailing Address	Citizenship (Country) (Country)
Inventor's Signature  Residence (City, State Mailing Address  NAME OF FIFTH INVENTOR: Full Name:	Citizenship  (Country)  A petition has been filed for this undersigned inventor
Inventor's Signature  Residence (City, State Mailing Address  NAME OF FIFTH INVENTOR: Full Name:	Citizenship (Country) (Country)
Inventor's Signature  Residence (City, State Mailing Address  NAME OF FIFTH INVENTOR: Full Name: (First	Citizenship  (Country)  A petition has been filed for this undersigned inventor  I. Middle [if any]. Family Name (or Surname), and Suffix [if any])
Residence  (City , State Mailing Address  NAME OF FIFTH INVENTOR:  Full Name:  (First	Citizenship  (Country)  A petition has been filed for this undersigned inventor  I. Middle [if any]. Family Name (or Surname), and Suffix (if any])  Date  Citizenship
Inventor's Signature  Residence  (City , State Mailing Address  NAME OF FIFTH INVENTOR:  Full Name:  (First Inventor's Signature  Residence	Citizenship  (Country)  A petition has been filed for this undersigned inventor  I. Middle [if any]. Family Name (or Surname), and Suffix [if any])
Inventor's Signature  Residence  (City , State Mailing Address  NAME OF FIFTH INVENTOR:  Full Name:  (First Inventor's Signature  Residence  (City , State	Citizenship  (Country)  A petition has been filed for this undersigned inventor  I. Middle [if any]. Family Name (or Surname), and Suffix [if any])  Date  Citizenship
Inventor's Signature  Residence  (City , State Mailing Address  NAME OF FIFTH INVENTOR:  Full Name:  (First Inventor's Signature  Residence  (City , State	Citizenship  (Country)  A petition has been filed for this undersigned inventor  I. Middle [if any]. Family Name (or Surname). and Suffix [if any])  Date  Citizenship  (Country)

# Title 37, Code of Federal Regulations, Section 1.56 Duty to Disclose Information Material to Patentability.

- (a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is cancelled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is cancelled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information, which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:
  - (1) Prior art cited in search reports of a foreign patent office in a counterpart application, and
- (2) The closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.
- (b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and
  - (1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim; or
  - (2) It refutes, or is inconsistent with, a position the applicant takes in:
    - (i) Opposing an argument of unpatentability relied on by the Office, or
    - (ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - Each inventor named in the application;
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

## Appendix A

I hereby appoint with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith, BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP, a firm including: Raj V. Abhyanker, Reg. No. 45,474; William E. Alford, Reg. No. 37,764; Farzad E. Amini, Reg. No. 42,261; Vincent H. Anderson, Reg. No. 54,962; Anthony H. Azure, Reg. No. 52,580; W. Thomas Babbitt, Reg. No. 39,591; Jordan M. Becker, Reg. No. 39,602; Todd M. Becker, Reg. No. 43,487; Michael A. Bernadicou, Reg. No. 35,934; Roger W. Blakely, Jr., Reg. No. 25,831; R. Alan Burnett, Reg. No. 46,149; Gregory D. Caldwell, Reg. No. 39,926; Cory G. Claassen, Reg. No. 50,296; Thomas M. Coester, Reg. No. 39,637; Mimi D. Dao, Reg. No. 45,628; Stephen M. De Klerk, Reg. No. 46,503; Daniel M. De Vos, Reg. No. 37,813; Elena B. Dreszer, Reg. No. 55,128; Sanjeet Dutta, Reg. No. 46,145; Nathan P. Elder, Reg. No. 55,150; Tarek N. Fahmi, Reg. No. 41,402; Thomas S. Ferrill, Reg. No. 42,532; Adam Furst, Reg. No. 51,710; Angelo J. Gaz, Reg. No. 45,907; Andre M. Gibbs. Reg. No. 47,593; James Y. Go, Reg. No. 40,621; Jason R. Graff, Reg. No. 54,134; Arlen M. Hartounian, Reg. No. 52,997; Jeffery Scott Heileson, Reg. No. 46,765; James A. Henry, Reg. No. 41,064; Willmore F. Holbrow III, Reg. No. 41,845; Sheryl Sue Holloway, Reg. No. 37,850; George W Hoover II, Reg. No. 32,992; Eric S. Hyman, Reg. No. 30,139; Aslam A. Jaffery, Reg. No. 51,841; Walter T. Kim, Reg. No. 42,731; Eric T. King, Reg. No. 44,188; Mark A. Kupanoff, Reg. No. 55,349; Steven Laut, Reg. No. 47,736; Suk S. Lee, Reg. No. 47,745; Gordon R. Lindeen III, Reg. No. 33,192; Jan Carol Little-Washington, Reg. No. 41,181; Joseph Lutz, Reg. No. 43,765; Michael J. Mallie, Reg. No. 36,591; Andre L. Marais, Reg. No. 48,095; Paul A. Mendonsa, Reg. No. 42,879; Jonathan S. Miller, Reg. No. 48,534; Heather M. Molleur, Reg. No. 50,432; Thinh V. Nguyen, Reg. No. 42,034; Robert B. O'Rourke, Reg. No. 46,972; Daniel E. Ovanezian, Reg. No. 41,236; Philip A. Pedigo, Reg. No. 52,107; Marina G. Portnova, Reg. No. 45,750; Jon C. Reali, Reg. No. 54,391; William W. Schaal, Reg. No. 39,018; James C. Scheller, Reg. No. 31,195; Kevin G. Shao, Reg. No. 45,095; Stanley W. Sokoloff, Reg. No. 25,128; Judith A. Szepesi, Reg. No. 39,393; Edwin H. Taylor, Reg. No. 25,129; Lisa Tom, Reg. No. 52,291; Mark C. Van Ness, Reg. No. 39,865; Thomas A. Van Zandt, Reg. No. 43,219; Mark R. Vatuone, Reg. No. 53,719; Lester J. Vincent, Reg. No. 31,460; John P. Ward, Reg. No. 40,216; Mark L. Watson, Reg. No. 46,322; Thomas C. Webster, Reg. No. 46,154; Chui-Kiu Teresa Wong, Reg. No. 48,042; and Norman Zafman, Reg. No. 26,250, my patent attorneys, and Chze Koon Chua, 53,831; Brent Vecchia, Reg. No. 48,011 and Lehua Wang, Reg. No. 48,023, my patent agents, with offices located at 12400 Wilshire Boulevard, 7th Floor, Los Angeles, California 90025, telephone (310) 207-3800; and James R. Thein, Reg. No. 31,710, my patent attorney, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

#### **DECLARATION AND POWER OF** Attorney Docket Number 5489P081 ATTORNEY FOR PATENT APPLICATION First Named Inventor Wayne V. Sorin (37 CFR 1.63) **COMPLETE IF KNOWN Application Number** Declaration Declaration Filing Date Submitted Submitted after Initial OR with Initial Filing (surcharge Art Unit Filing (37 CFR 1.16(e)) **Examiner Name** required) As a below named inventor, I hereby declare that: My residence, mailing address, and citizenship are as stated below, next to my name. I believe I am the original and first inventor (if only one name listed below) or an original and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: Multiple-wavelength Pulsed Light Source for a Wavelength Division Multiplexed Passive Optical Network (Title of the Invention) the specification of which is attached hereto. OR was filed on (if applicable): as United States Application Number **PCT International Application Number** and was amended on (if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above.

I do not know and do not believe that the claimed invention was ever known or used in the United States of America before my invention thereof, or patented or described in any printed publication in any country before my invention thereof or more than one year prior to this application. I do not know and do not believe that the claimed invention was in public use or on sale in the United States of America more than one year prior to this application, nor do I know or believe that the invention has been patented or made the subject of an inventor's certificate issued before the date of this application in any country foreign to the United States of America on an application filed by me or my legal representatives or assigns more than twelve months (for a utility patent application) or six months (for a design patent application) prior to this application.

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Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?
				☐Yes ☐No
,				☐Yes ☐No
				☐Yes ☐No
				☐Yes ☐No
				☐Yes ☐No

I hereby appoint the persons listed on Appendix A hereto (which is incorporated by reference and a part of this document) as my respective patent attorneys and patent agents, with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

Direct all co	rrespondence to:	Customer Nun	nber	08791	or 🛛	Corresponde	nce address below
Name	Thomas S. Ferrill Blakely, Sokoloff	, Taylor & Zafman LI	_P			-	
Address	12400 Wilshire B	oulevard, 7th Floor					
City	Los Angeles		State	California		Zip Code	90025
Country	USA	Tele	phone	(408) 720-8300		Fax	(408) 720-8383

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

NAME OF SOLE	OR FIRST INVENTOR:	has been filed for	this undersigned inventor
Full Name:	Wa	yne V. Sorin	
	(First, Middle [if any], Family	Name (or Surname), a	nd Suffix [if any])
Inventor's Signatu	re	Date	
Residence M	ountain View, California USA	Citizenship	Canada
	(City, State, Country)		(Country)
Mailing Address	3579 Cambridge Lane		
	Mountain View, California 94040 USA		

		Ben J. Vakoc					
•	(First, Middle [if any], Famil						
Inventor's Signature	12 O.	Date	5/8/04				
Residence Cami	bridge, Massachusetts USA	Citizenship US	A				
	(City, State, Country)		(Country)				
Mailing Address	3 Sargent Street						
•	Cambridge, Massachusetts 02140 USA						
NAME OF THIRD II	NVENTOR:	een filed for this unders	igned inventor				
E II Nove							
Full Name:	(First, Middle [if any], Fami	ly Name (or Surname) and S	uffix lif anul)				
Inventor's Signature		, D-1-					
inventor's Signature		Date					
Residence		Citizenship					
	(City, State, Country)		(Country)				
Mailing Address							
Full Name:							
	(First, Middle [if any], Fami	ly Name (or Surname), and S	uffix [if any])				
Inventor's Signature		Date					
Residence		Citizenship					
	(City . State. Country)	Citizenship	(Country)				
Mailing Address	(City, State, Country)	Citizeriship	(Country)				
Mailing Address	(City, State, Country)		(Country)				
Mailing Address	(City, State, Country)	Citizenship	(Country)				
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Mailing Address  NAME OF FIFTH II		peen filed for this unders					
NAME OF FIFTH II							
-	NVENTOR:		signed inventor				
NAME OF FIFTH II Full Name:	NVENTOR: A petition has be a compared on the compared of the compared on the c	peen filed for this unders	signed inventor				
NAME OF FIFTH II	NVENTOR: A petition has be a compared to the c	peen filed for this unders	signed inventor				
NAME OF FIFTH II Full Name:	NVENTOR: A petition has been described for the second seco	peen filed for this unders	igned inventor				
NAME OF FIFTH II  Full Name:  Inventor's Signature  Residence	NVENTOR: A petition has be a compared on the compared of the compared on the c	peen filed for this unders fly Name (or Surname), and S Date	signed inventor				
NAME OF FIFTH II  Full Name:  Inventor's Signature	NVENTOR: A petition has been described for the second seco	peen filed for this undersolvent filed for this undersolvent filed for Surname), and Surname), and Surname) a	igned inventor				
NAME OF FIFTH II  Full Name:  Inventor's Signature  Residence	(City , State, Country)	peen filed for this undersolven filed filed for this undersolven filed for this undersolven filed for this undersolven filed filed for this undersolven filed for this undersolven filed for this undersolven filed file	igned inventor				

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- (c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:
  - Each inventor named in the application;
  - (2) Each attorney or agent who prepares or prosecutes the application; and
- (3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.
- (d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.
- (e) In any continuation-in-part application, the duty under this section includes the duty to disclose to the Office all information known to the person to be material to patentability, as defined in paragraph (b) of this section, which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

## Appendix A

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